

## Abstract

An amplifier (AMP) is provided with a pair of choppers ( $CHP_i, CHP_o$ ) in order to reduce the DC-offset and the noise produced by the amplifier (AMP). To obtain an optimal noise reduction the pair of choppers ( $CHP_i, CHP_o$ ) operate on a high frequency. As a result the DC-offset cancellation is not optimal because a so-called charge injection of the switches in the pair of choppers ( $CHP_i, CHP_o$ ) produces a DC-offset. To overcome this problem the amplifier (AMP) is further provided with further offset cancellation means which are for example formed by a further pair of choppers ( $CHP_{fi}, CHP_{fo}$ ). This further pair of choppers ( $CHP_{fi}, CHP_{fo}$ ) operates on a relatively low frequency. The combination of the pair of choppers ( $CHP_i, CHP_o$ ) and the further pair of choppers ( $CHP_{fi}, CHP_{fo}$ ) guarantees an optimal DC-offset cancellation as well as an optimal noise cancellation.